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METFOROLOGICAL DATA REPORT.

1930/48 MLRS,

Missile Number V-38-001,

Round Number V-182/IW-1, 10 August 1981.

bу

ponald C. Keller Program Support Coordinator Phone Number (505) 679-9568 AVN Number 349-9568

(6) 1F665702D127

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ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

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UNITED STATES ARMY ELECTRONICS COMMAND

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20. ABSTRACT (Cauthus on reverse side If reseasory and identify by block number)	
Meteorological data gathered for the launching of the	ne 19304B MLRS, Missile No.
V-38-001, Round No. V-182/IW-1 presented in tabular	form.

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#### INTRODUCTION

19304B MLRS, Missile Number V-38-001, Round Number V-182/IW-1, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1508:56 MDT, 10 Aug 81. The scheduled launch time was 1400 MDT.

#### DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory, (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

- 1. Observations.
  - a. Surface:
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m $^3$ ), wind speed and direction, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
  - b. Upper Air:
- (1) Low level wind data were obtained from Pilot-Balloon observations at:

#### SITE AND ALTITUDE

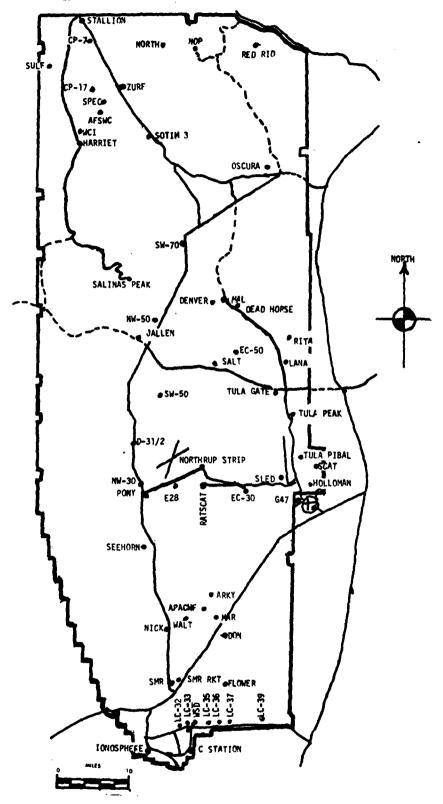
LC-33 2 KM NICK 2 KM

(2) Air structure data (rawinsonde) were collected at the following Met Sites:

#### SITE AND TIME

LC-37 1200 MDT WSD 1300 MDT LC-37 1430 MDT WSD 1515 MDT

## WSMR METEOROLOGICAL SITES



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	}	LC-38 Launch Area		
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PROJECT SURFACE OBSERVATION

							S	STATION	33		
TABLE	1						×	= 485,135,7	7 - 7	X= 485,135,76 Y= 185,919.24 H=3,988.57	13,988,57
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TIPE: MDT 1509
DRY BULB TEMP. 31.5
WET BULB TEMP. 19.8
WET BULB DEPR. 11.7
DEW POINT 14.4
RELATIVE HUMID. 36

POLE #1 X485,87 Y185,95 H4018.7 38.7 ft	4.29 8.90 4		POLE #2 X485,87 Y186,012 H4033.5 53.0 ft	4.93 2.00 7		POLE # X485,87 Y186,11 H4063.9 83.6 ft	7.29 6.06 2	
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	134	06	<b>T-</b> 30	141	05	T-30	163	07
T-20	121		T-20	146	08	T-20	168	08
T-10	131	10	<b>T-10</b>	152	09	T-10	146	10
10.0	142	10	<b>T</b> 0.0	150	10	T0.0	156	11
T+10	119	07	T+10	132	07	T+10	150	11

TABLE 3 LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 1 X484,982.64		73, H3983.00 (base)	LEVEL #2, 62 X484.982.64		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	118	10	<b>T-</b> 30	157	11
<b>T-</b> 20	099	13	<b>T-</b> 20	180	16
<b>T-</b> 10	108	13	T-10	169	15
то.о	114	14	T0.0	171	16
T+10	115	13	T+10	176	16
	1	1	1		1

LEVEL #3, 10 X484,982.64		, H3983.00 (base)	LEVEL #4, 20, X484,982, Y1		3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	148	10	T-30	157	15
T-20	167	16	<b>T-</b> 20	158	15
<b>-</b> 10	164	15	<b>T-1</b> 0	157	14
1).0	169	16	<b>T</b> 0.0	154	15
T+10	172	15	T+1()	168	15

### T-TIME PILOT-BALLOOM MEASURED WIND DATA DATE 10 Aug 81

SITE: LC-33

TIME: 1509 MDT

WSTM COORDINATES:

X= 484,837.34 γ= 184,124.44

3,975.57 H=

SITE: NICK

TIME: 1509 MDT

WSTM COORDINATES:

X= 470,734.56 γ<sub>=</sub> 255,775.64

4,126.57 H=

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS	LAYER MIDPOINT METERS_AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	145	07	SURFACE	145	04
150	161	11	150	152	09
210	160	11	210	154	10
270	156	11	270	156	10
330	153	12	330	159	10
390	152	12	390	158	10
500	148	13	500	152	09
650	146	13	650	138	08
300	150	12	800	134	12
950	153	09	950	138	15
1150	146	80	1150	142	15
1350	151	10	1350	140	16
1550	147	15	1550	141	15
1750	145	16	1750	136	12
2000	142	13	2000	141	11

# AIMING AND T-TIME COMPUTER MET MESSAGES 10 Aug 1981

LC-37 1200 MDT	WSD 1300 MDT	LC-37 1430 MDT	WSD 1514 MDT
METCM1 324063	METCM1 324064	METCM1324063	METCM1324064
101800122882	101900124884	102050122880	102120124882
00178002 30510882	00204004 30530884	00231004 30670880	00240010 30670882
01167005 30320873	01249008 30400874	01257005 30490871	01259015 30520872
02317003 29910848	02265010 30100850	02233009 30090846	02266011 30170848
03241007 29500810	03258009 29710812	03263012 29680809	03272012 29790810
04244005 29020764	04255009 29240766	04279011 29180763	04278012 29310765
05243007 28630720	05172008 28830722	05236009 28730719	05286009 28810721
06201007 28300678	06120005 28440681	06227006 28330678	06211005 28420679
07243002 27950639	07223002 28090641	07037003 27950638	<b>0715400</b> 5 <b>2804064</b> 0
08199004 27600601	08243003 27720603	08035003 27610600	<b>08116004 2768060</b> 2
09149004 27200564	09173004 27330567	09085007 27310564	<b>09195008 2728056</b> 6
10098006 26900530	10213007 27030532	10194008 27020530	<b>10247008 2700053</b> 1
11065005 26760497	11297005 . 26730500	11320005 26760497	11423005 26740499
12461005 26260452	12443007 26290454	12433009 26290451	12436011 26280453

GEODETIC CONNINATES 32.40175 LAT DEG 106.51232 LON DEG		
JATA	REL.HUM. PERCENT	40.0 65.0 72.0 72.0 74.0 63.0 63.0 63.0 80.0 80.0 80.0 80.0 80.0 80.0
SIGNIFICANT LLVLL UATA 2220180181 LC-37 TABLE 6	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	111111111 0000 0 0 0 0 0 0 0 0 0 0 0 0
SIGNIFIC 23 LC TABLE 6	TEMP AIR DEGREES	00000000000000000000000000000000000000
4SL	PRESSURE SECNETRIC ALTITUDE ILLIBARS NSL FEET	4051.4 5138.4 7834.2 8617.8 8617.8 10580.7 11922.8 12283.1 15511.3 15511.3 17000.2 18494.7 20519.6 25123.2 26941.6
STATION ALTITUDE 4051.37 FEET MSL 10 Aug. 81 1200 HRS MDT ASCENSION NO. 181	PRESSURE MILLIBARS	882.4 850.0 773.0 746.2 700.0 666.4 657.6 657.6 632.4 615.6 582.8 582.8 582.8 582.8 582.8 582.8 513.0

	PRESSURE				TABLE 7				
4051.4 4500.0 5000.0 5500.0	MILLIGARS	TEMPI AIR DEGREES	TEMPERATURE R DEWPOINT EES CENTIGRADE	HEL HUM.	UE <sub>I</sub> ISITY S GM/C <sup>U</sup> BIC METER	SPEEU OF SOUND NIVOTS	"IND DAT DIRECTION DEGRELS(IN)	SPEEU KNOTS	INUEX OF REFRACTION
4500.0 5000.0 5500.0 6000.0	882.4	29.8	14.7	40•0	1007.4	6.089	100.0	1.9	1.000294
5000.0 5500.0 6000.0	868.9	27.4	13.7	42.9	1000.2	577.4	114.1	2.5	1.000289
5500.0	054.1	74.7	12.4	46.1	992.4	074.5	140.1	3.5	•
60000	839.2	23.0	11.8	<b>49.64</b>	981.1		125.1	0.4	.00027
	824.6	21.5	11.5	52.3	968.7	_	128.5	4.8	
6500 • 0	810.2	20.1	11.1	56.1	950.5		130.9	5.6	
7000.0	790.0	18.7	10.6	59.4	344.5		1,55,1	6.1	• 00025
7500.0	784.2	17.3	10.1	62.8	932.6	665	130.2	5.7	•
0.000a	760.4	15.8	9.8	67.7	920.9	_	159.5	5.3	1.000260
8500.0	754.8	14.3	10.1	75.8	1.606		144.0	6.1	.00025
9000.0	741.3	13.0	9.6	80.1	896.9	60.1.00	140.7	7.2	•
9500.0	728.0	12.5	3•4	77.5	883.7		139.3	•	1.000248
100001	714.9		7.1	75.0	870.7		129.5	7.4	1.000241
10500-0	702.1	10.5	5∙8	72.4	857∙8		120-1	4.9	1.000235
11000.0	687.3	9•5	6•4	72.6	845.5	9.969	112.0	5.9	1.000229
11500.0	670-8	8.5 5.5	0.4	73.4	835.4		107.7		1.000225
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14500.0	605.4	5.6	8.9	9.64	76.3.0		10001	2.5	1.000188
15000-0	594.1	1.5	7.7-	50.3	751.9		6.46	3.3	-
15500.0	583.0	<b>3</b>	-8.5	51.0	740.9	_	49.6	£ • 3	•
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16500.0	Z•19c	2.0	7.6-	57.0	720.5			1.0	•
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23500.0	450.7	-13.6	4 · 06 -	72.5	5/2.4	627.8	210.5	6.3	1.000130

te ODLTIC COORDINATES 32-40175 LAT DEG 106-31232 LON DEG	INLEX OF REFRACTION	1.000128 1.000126 1.000124 1.000122 1.000118 1.0001114 1.0001114 1.000106 1.000106 1.000106 1.000106 1.000106
32.00 10 10 10 10 10 10 10 10 10 10 10 10 1	SPEEU KROTS	0.00 1122.00 1122.00 1122.00 1122.00 1123.00 1123.00 1133.00
	#IND DAIM DIRLCTION S LEGREES(IM) K	202. 201. 201. 201. 201. 201. 201. 201.
٧ <u>-</u>	SCEED OF SOUND KNOTS	0220.4 0220.1 0220.7 0210.2 0110.2 0110.3 0110.3 0110.3 0111.3 0111.3
UPP, R AIRMIA 2220100161 LC-37 TABLE 7 CON'T	UEISITY GM/CUB1C MLTER	563. 5465. 5346. 5346. 511. 511. 511. 511. 511. 511. 511. 51
L 10 AUG. 81 1200 185 MDT ASCENSION NO. 181	REC.HIM. PERCENT	22.1 22.1 22.1 33.0 33.0 33.0 33.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25
	TEMPERATURE K DEMPOTNT LES CENTISRADE	1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	TEMP AIK DECKLES	11111111111111111111111111111111111111
117Upr 405 1 100 181	PRESSURE HILLILARS	4155 41000 39000 39000 34000 34000 34000 34000 34000 31000 31000 31000 31000
STATION ALIITUDE 40 10 AUG: 81 ASCENSION NO: 181	GEONETHIC ALTITUDE MSL FEET I	24.000.0 24.000.0 25.000.0 25.000.0 20.000.0 20.000.0 28.000.0 29.000.0 30.000.0 31.000.0

	GEODETIC COOKDINATES	32-40175 LAT DEG	106.31232 LUN GEG
NAMDATORY LEVELS	222 <sup>01</sup> 0 <sup>0</sup> 181	LC-37	TABLE 8
	STATION ALITIUDE 4051.37 FEET MSL	10 AUG. 81 1400 HRS MUT	ASCENSION 110. 181

PRESSURE (	NESSURE GEOPOTENTIAL		FRATURE	KEL . HU.1.	AIND D	414
MILLIBARS	FERT	AIR DEGREFS	AIK DEVPOINT DEGREFS CENTIGRADE	PERCENT	DIRECTION SPEN DEGREES(TN) KNO	SPELD
850.0	5135.	24.0	12.0		121.7	3•5
A00.		19.1	10.8	<b>58</b> •	132.3	6.2
750.0		13.7	10.1	79•	146.4	6.5
700.0	_	10.4	5.6	72.	116.5	6.3
650.0	_	<b>†•9</b>	N•1	63.	123.4	5.9
6.009	_	2.1	-7.2	50•	99•5	2.8
550.0	_	-3.7	-10.5	.63	6.02	2.5
500.0	_	1.9-	-25.6	20•	36.6	4.5
450.0	••	-11.0	-27.7	- th-2	244.5	7.8
0.004		-17.2	-34.2	21.	203.0	10.3
350.0		-23.5	-37.2	27.	225.9	16.5
300.0		-31.6	0.74-	20•		

ofute (11c compitales ozsavna3 LAT ten 100-o/033 LOT LEn								•									
. J A [	AL CHUM. PERCENT	0.00	38.0	0.70	=-+0	73.0	نا•(اب	0.24	47.5	J. 0C	0.0+	10.0	15.0	10.4	0.44	16.0	29.11
STG.III ICAUT LEVEL JATA PERMUSUSAS RHTT, SALDS	TEMPLIATUM AIR PEMPOLIAT DISHELS CENTONIOL	4.54	14.5	7.1	, • •	5.5	٠.	-0.1	-10-1	h•01-	-13.3	7.52	J.0.51	0.67-	6.66-	-30.4	1.00-
516.11 10 2. 8.13 TABLE 9	TEAPL A1K U. SKELS	30.2	23.5	15.H	11.3	9•C	7.6	5.3	7	7.5.4	-3.1	-3.0	7.9-	-8.3	18.2	-16.0	-16.9
ار. ا	PMISSORE NOTITATE ALTITUDE ALTITUDE NILLEMANS NAL FEET	5783.0	455/e1	3513.3	19604.5	12607.1	12353.3	13051.2	10473.2	17235.3	17623.5	16171.8	19547.9	20-62-4	21119.4	24700.0	25177.3
5741704 ALTITUDE 3339.00 FFFT 135. 18 446+ 61 1307 1165 4101 856£95104 60+ 543	\$MSITTI:	834.0	3.746	154 · H	793.0	0•400	2•14.5	2.080	9.205	94646	n•8€ c	6.657	6.6(2	0-424	11-02 17	4-11-6	i) • L(: 1)

STATION JUITINGUE IN AUGO SI	ווייטר	2,489.10 FILE SULT	10 FO F	-	HPP. R. Aas. Day 222002 Byth 5	4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		.4 00. Ta	32.40143 LAT LEG
ASCL1.51.0	\$ ا <sup>ب</sup> ر • ن،			<b>F</b>	TABLE 10			106.	106.37.133 Luu ten
of volt Ind.	PKE Suction	T <sub>ell</sub> iph A Lis	TailPlace Total  N Opening The	ACL, WH. DE ISTTA PLPCERT BYZOUR	,	الاراسات الا مراسات	AND ONLY.	th SPERU	100.4 OF
ואר זצו.	داالدا الاالا	) CERNETO	CERTICADE		-	V Carr	עווינים אייטיט	10110	MERACI IO
3499.0	3844	30.2	5.0	36.0	103	1.0mg	110.0	4.1	1.000209
4007.	5.33.	3.0.5	15.5	36+11	10000	-	115.4	4.1	1.030268
45,900	400.7	23.1	12.6	57.9	4.166	Ī	15:1•0	5.5	1.196203
20000	6,049	30.5	11.	4.0.0	44086	0,000	1,900	7.1	1.000.79
25,000	1.5.5.1	か・カレ	11.7	43.0	1.476		140+0	æ•3	1.000
· •0000	₹•+\$¢	4.50	11.7	1,7.7	6-296	-	7.07	10.3	1 - 01:12 74
0.0000	11.1.1	21.9	11.1	616	0.00		140.4	æ•6	1.20110-1
7,009.0	0.67	5000	11.1	4.65	23.50		<b>₹•</b>	6.2	1.1002
7.00.7	795.5	13.4	16.47	2.05	927.5		3.44.7	ວ ສ	1.000000
8000.0	700.05	17.5	10.3	53.0	910.0	1.000	7.0.7	ت د د	1.00000
0.0039	75202	20.3	2.0	6++9	0. ti Uta		134.6	بر ا د	1.1109250
40100v	741.7	¥:• + -	<b>£</b> 0	106.3	R92.5	5.7.5	110.0	\ ·	1.000250
C+4056	120.4	13.7	7.4	65.6	830.1	9.700	163.1	7.6	1.604243
10000	710.4	12.6	2.,	64.9	H•196	_	₽•1¢	1.7	1.000237
10500-0	702.0	11.5	<b>U•</b> %	04.1	855.0	_	7.600	6.1	1.000232
11000+3	6.69.9	10.4	<b>∄•</b> □	36.4	D • C P.K	-	۱۰c/	8 · 0	1.000228
11500.0	4.0129	9•2	(i • i;	69.7	832.	_	**O'	0.0	1.00,0224
120,000	2.009	Û•₽	3.5	73.11	820.0		7.1.	ю Ю	1.0602.0
12500+3	550+3	7•4	÷	57.4	800+1		5.60	2.7	1.30 1209
1300-1	15/411-17	9•0	~	49.0	7.9.1.1	-	170.1		1.0000501
15,000	023.3	7•5	[··]-	42.1	S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	_	0.101	<b>v</b> ·	Action .
T+COS+T	4./10		 	5 · 4 · 5	1.5.1	_	0.01	9 0	06Tu30 • F
14598	60:3•1		1.6	रू जिल्ला जिल्ला	751.4		7 : · · · ·		1011.00-1
15000-1	0.94 • 8	 	- P	4.7°C	2.C./		2071	0 0	
10501	2000	<b>↑•</b>	7 6	20.0	1.667			9	77100001
15000	C • 7 · 6	<b>?</b> '	<b>.</b>	ን !! • c ታ :	2.027		7.70	7 2	1.00.174
120000	100 100 100 100 100 100 100 100 100 100		C • [ ]	0.0	707	2 -	2.01	2.5	1.00.10.0
17,000	1,127			0.00	7 100		114.0	 B	1.4.40100
I compa	53.1.8		3 · 3 · 3 · 3 · 3 · 3 · 3 · 3 · 3 · 3 ·	V. 40	P. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	-	1<0.0	9.9	1.00159
10576	525.1	1.3.1	0.071	15.3	6,700		1.101	c•5	100154
19000	217	***	2.17-	15.4	F. + 799	2.000	T+7+1	5.4	1.101.01
13000	6.004	-0-1	÷ • : 7"	15.0	1.654	_	C+f c.T	ລ• <i>າ</i>	1.00149
20002	491.3	£.00-	4 . N.C.	15.1	64243	0.000	7•1.51	3.9	3.000
くいいりつ	6.316.9	-7.7	6.63	15.7	632.0	\$1 4 P.C.3	217.9	3.0	1 • 0000
2100nen	47.4	7.5-	-5(103	1,4•3	1.154		7.47	3.9	1.100141
21595+0	402	1.6	-31.5	14.2	6.14.0		C•CC/7	ع. این	1.00108
くろしりょう	C+1.53	-10.3	7.5.5	14.5	÷104	2.150	7.167	7.1	1.000106
くとうのの・1	10000	-11.5	J+\$ C_	υ•±:	592.		7.0.5	0. 5.	#01:510.*T
<b>-3000-</b>	45,03	11.2.6	7 • 0 F	1.5.1	5,000	6.50.4	0.00%	9.6	1.0 0132

"" ODE 11C COOPERINATE" 52-40043 CAT DEG 100-57033 COG LEG	INULX OF MEFMACTION.	1.000150 1.000128 1.000128 1.000124
տւ <sup>Օ</sup> Սել 11 52• 100•	LA SPEED ALIOTS	10.6
	MIND DALA DIRECTION SHED LEGRELSTIN ALOTS	6.10.7
1. NO	rel o of settati necets	574 027.5 566 020.1 557.0 024.0 547.3 023.9
OPP. R. Ass. Links 2.2206, 0.345 ALLTE SALUS TABLE 10 CON'T	DFISITA VEZCURAC PETER	574.4 560.6 557.9 547.3
. ,	SEL «H. M. PEPCSOT	15.5 15.0 15.9 24.2
ı Sı. MDT	TURE DEMOTOR SELLAM DESSITA SPLIO OF AIR DEMOCIST PROCEST OF SCHOOL BESKESS CELTURADE. PETER ANOTS D	1.54+5 1.55+3 1.55+1 1.52+1
59• 0 Fr. (3) 1 18(5)	2	1111 2010 2010 2010 2010
STATION ALITTUDE 3989+ 0 FFET USI. 19 Aug. ol. 133+ 1885 MDT ASCENSION NO. 043		42/.7 417.3 411.1 402.9
5141164 ALITTUDE 35 10 Aug 5.01 ASCEMBION 10+ 543	GEOGRIFIC PRESOURL ALITPUL GSC FELF GILLIDARS	0+0005 54000+7 0+6000+7

OE OLE TLE COUNDINATES	32.40043 LA! LEG 106.37033 LG4 DEG		JIN LAIN	ON SPELD TN) KINCTS	1.6	4.2	0.0	S•3	۲۰۶	3.5	1.0	£.3	0.0	
			114.	Uliker 10N	7.11.1	144.5	129.0	7.6.7	40.06	1-4-1	110.0	7.001	9.242	
. 177.	٠ <u>٠</u>		116.2.1	FLPCEAT	41.	* 5%	./4	• †′,	•00	40.4	£6.2	1:0	10.	29•
AND TORY LEVEL 5	SULVE TELL	TABLE 11	IF MERLY TURE	AIP DERPOINT	11.7	11.2	٥.٠	4.7	-1.1	-7.8	-14.5	-28.5	J. 52.	-30.1
4.3		1		ADP DEGIT 5 C	26.0	20.9	16.4	11.3	1.2	3.0	-2.)	-6.5	-10.R	-10.0
ا برگر در	ټ		SOF OTT REPLY	1.5.1	5139.	6.147.	8,544.	10534.	12/12.	14759.	17951.	19550.	22213.	25135.
~ ~	1317 1175 ED		TRESOUR SEQUENTIFIE	PALLINAPS	)*G02	<b>6.0</b> .3	U•3€2	n.i.or	6.000	U-90's	6.00%	U•00%	J•05h	0.004

32.40175 COGGOTGATES 32.40175 EAT DEG 106.31232 EQG CEG																			
۸۱۸.	REL-MUR. PEKCENT	0.80	0.04	0.tc	0.67	71.0	ŋ•6 <del>1</del>	0 <b>•</b> 9¢	0.44	9.79	73.0	16.0	10.0	18.0	72.0	20.0	۰0،2	13.0	0.02
STRILL TONIT TEVEL DATA PERMITTENE LC-37 TABLET2	TEMPLRATOLE Alic OCHOLIA OF GLES CEMFORMU	10.5	5 : · · · · · · · · · · · · · · · · · ·	7.01	3./	7.7	0.01	٠٠٠١	9.11-	5.0-	6.0-	9.47.	p•07,	721.00	6.77	ひ・うじー	2.00-	و،دن-	U. 04-
STGHAFTC CC- TABLET2	Traft AIR OF GREES	31.8	36.65	17.1	11.1	7.1	3.7	<b>1.</b> 5	.2	-1.0	-2.1	-3.ც	-5.3	7.4-	-12.0	-16.2	-17.8	-17.4	-31•0
ا آ	Pradict of the State of Trule and Tr	4651.4	5 60 PM 10	10.01	10,562.8	12360.1	14163.2	15276.8	10015.7	10791.5	17567.5	1,743.7	1-4503.9	20335.5	22019.3	20154.2	25:17.5	20,264.4	32990.6
JACTON VENTUOL 4051+17 FELT MSE. 10 meter 11 140° des MOT ASCELSISE 40+ 102	Principal of Linearity	<b>4.</b> 080	350 - 370 -	161.6	760.0	4.040	612.6	8-189	571.0	555.0	<b>8.653</b>	513.6	J. J					\$85.4	

JATION ACITTUDE NO		SLAT FEET	: T	-	UPP R Ask to	: :- :- :-		ut Oire T	UE DELCTIC COCRETIANTES
10 A.C. 1	-	#430 ms	5		LC-37			. S	32.40175 LAT 1LG
A30E.310	4			-	TABLE 13			100	100.31232 104 110
of Sec. Tello	Pilt Suill	15.1	FLIPEKAT. DE	HELLINM, DERSIT	DENSITE	No book	ALMU UMIA	.14	INCLA
ALCITHOL SL FELI	ALL LANGS	יין אוני סני הולבניני	DEWRYT II CENT PRADE	PFRLENT	G1/CUSTC N_ FER	ST ONLY	UIRI CFION DEGREES (IN)	SPEEU	OF REFRACTION
40.51.4	4.000	11.4	,	33.1	999.11	0.700	1.01.0	4.1	1.4000200
J. CO34	from.	29.5	5	59.7	991.1		1.5.9	5.4	1.100267
5.00mg	636.3	6*60	U • 1, T	45.0	486.	-	1.601	6.9	1 - 1,69200
€•00,³€	631.7	55.3	13.00	4.4.1	071-1		7.75	<b>ડ</b> •3	
2000a	820.3	£.6.7	1. • 9	50.0	7.656		1.0.5	10.1	•
• £9° c	80 1.1	26.3	12.5	5-1	947.5		147.0	11.2	
. • Coh/	19.61	τ• Θ.:	11.7	ນ ເ ທິດ ເ	030+3	-	4.501	12.0	1.000269
- 91.57	/ G L • /	0.6.	1.11	9•56 €	0.426	•	7.00	7.71	
	( o '	100	ر . د د	3 : V U			100	16.1	1020001
	74.05		0 4	. 69	106		3.001	100	
7 - VIII	70/63	7 6 7	2	72.0	C. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	7000	7. P	C . C	
10.000	714.3	0.00		75.4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		7.70	7.5	
10500	791.0	11.3	7.7	73.0	854.	•	1 + 1 • 1		
11000	6.70.3	10.1		17.1	892.7		1.3.9	5.9	•
11509.	1,70.4	9.6	41.00	74.5	931.0	4.00,0	39.5	ر. د	
12000.0	604 • 1	6.7	£0 • €0	72.0	A1 4.	-	<b>n•</b> f q	7.2	
125,07.0	65.2 • )	£•0	1.0	69.3	30 1-0		?•¶n	۰ ۱	
150001	0.000	6.0	က္း • •	2000	7.067		ウ・ ・ ・ ・ ・ ・ ・	N (	1.000200
0.00000	020.00 01.06	2 C	50 C	1976	77	) • G : O	2000	7 . K	1.000.1
1+.09	2010	. C • S	-(1.1)	51.5	761.07		7.1	3.5	1.000169
15000.3	593.3	2.0	1	54.3	750.1		i0.9	4.3	
10000	5132.	1.1	-7.5	52.4	73.501	6.000	24.0	5.3	1.000182
Longue :	571.9	•5	-11,00	44.3	721.3	1.440	4 5•1	9•0	1.0001/6
100,00	7.00	មា :	-7.7	÷ 66	715.5		V. 50.	7.2	
17.00.01	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 1 • 0 · 0 · 0	C %	72.5	1	2.000	2.00	1.0	1 - :0061 74
10000	529.9	-3.1	4.67-	52.7	6.86.4		111.0	7.4	1.00105
10500	512.9	-5.h	H-121-	֥02	674.1	_	160.4	3	1.000157
19669.6	6,449	F-4-3	0.52-	14.0	t++( yy+	0.9.0	7.6	0•9	1-1:00151
19500.	500.	-5+3	15.00	18.0	650.1	_	1/3.5	₽•#	1.000149
2000d	9•::6#	-5.5	5.077	: · · · · · · · · · · · · · · · · · · ·	43400		202	ກ• ກ•	1.000146
< 0.00 0.0 × 0.	T • ₹ () th	10.5	Q•\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	្ន (ក្រុ	62.11		24072	ਤ । ਹ	3+1U001-1
21000°	14710	7.1-	7.0.4	٠ <u>٠</u>	61		c.45.2	r	1.000
7.500.5		**************************************	2 · / ' ·		C+7 199	-	3 °	•	901000·1
ZZ01022	0 * 7 0 * 7	7-111-	± :	\ .	7	-	1.1.2	٠ ; د د	100001
22500	****	C - T	1./.	74.1			5	0.0	1.00,0135
: • u d - 10 7		( • 7 -	•	3 3 * F			C 1 1 2	11.1	1.101153
Septimes.	****	7.01-		7.	0.000	<b>₹•</b> · · • <b>√</b>	0.17	1. • . 1	OCTUBU-I

TANTON PENTUDE "		51 - 37 - 51 (1 p. 51, 145 - 305 - 601	(1 , 5). 10.		2.261 (140. 2.261 (140. 10-37	<u>:</u> ,		t 602 T 1	UE GULTTE COURTHATES 02-40175 LAT 12-60
4501, 5101, 10• 105	٠. د م			_	TABLE 13 CON'T	1,1		106.	106.51232 LUN CLG
of one TRAC	بالارزالاة	- 1		Pt fin ".	07.5117	10. U. 21.	LIND DATA	14	Iruex
15L FE 1 11		FLORELS	THE LOOKS FLORES CENTUSPAGE	PEPCIPT	Proceed of Acutal Social	Sottin	Dist (110)	SPEEU	OF MEPRACTION
こ・しけりもご	410.4	-14.1	6. 4.	22.5	56.J.	1.7.20	3.47	13.1	1.0000
2420000	410.6	-15.0	5-22-	21.4	554 • 11	2.3	7000	14.2	1.000120
. JUN0 .	40.00	-15.9	J. 5 7 5 -	2.0.5	61.4.4.63	2.3	1.000	10.4	1.001.3
Sep. 07.0	3.44.0	-17.0	ر، • ابن −	20.05	530.0	15, 0.10	2.1.2	10.5	1.000121
2000E	5 • J 4 5	-17.6	6.53-	70.1	52000	0.770	1.7.7	17.0	1.000119
2000az	370.7	F-17-5	55-	18.1	510.1	4.7.70	オ・ハウン	17.2	1.000117
_ /nuo	37. 9	7.01-	-57.	18.3	4.000	C. 101	2-1-3	17.4	1.4411125
2.75,00.6	5000	0-3	- 52.1	18.4	50.3 • 5	019.0	6.80%	17.6	1.000113
	353.0.7	-71.5	©•C∩=	10.0	7.761	1.001.1	0.1105	16.2	1.0001
7:1700.61	3413.4	4.23.	-30.0	18.8	40 404	1.010	6.(IO)	19.0	1.400109
,•000£7	341.2	5.50	€ • · · ) · · _	12.0	47000	01000	7.003	15.8	1.000107
-1.000 J	5.465	C+95-	141.4	17.1	46.901	C-1500	2000	10.6	1.000105
2.F0000	321.5	->c•1	9.24.	19.3	9.14h	4.710	<b>3•</b> 403	17.8	1.060104
<b>30Ω06€</b> €	320.ts	-,.7.3	3•€ 113•€	14.5	454.1	010.5			1.000.102
\$1000°	31,00	4.0%	3.4.4.	19.6	40.04	_			1.00100
21560.7	367.5	9.6%	4.54	19.6	43.7.				1.000004
34000	301.1	H-01-	201.03	20.0	425.00				1.000047

12 2 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H MEETATURE LELATION. Who bash	ALE OF POTAL LEACENT DIRECTION SPLEO	13*9 40* 140*2	11.9	9.0 tile 150.1	7.0 74. 158.11	1.0 60.	-6.1 53. 15.0	-6.5 t.y. 75.0	-25.00 100 1/5.1	-27.5 20. 240.5	-3300	-39.7 19. 2b0.c	,
-		PELT REGLES CE	5476. 28.5	819 21.4				14715. 2.6			2217118.6			
5747186, actifflyc 9, 51+27 Fret 1,56, 12 606+ 1 486c, 1 1457 008 1.06 886c,5107 0.0+ 1.02	PRESCUE GENERALIAL	HILLOAMS FE		0.01.00										

SIGNIFICANT L. VLL DATA  22200-0544 22200-0544 32-4004  MHITE SAIDS  TABLE 15  TEMPERATURE REL.HUM. AIR DEWPOINT PERCENT UPGREES CENTICRADE  31.6 12.9 32.0 26.6 12.9 32.0 26.6 12.9 41.0 26.9 10.7 52.0 14.6 8.3 44.0 20.9 10.7 52.0 14.6 8.3 66.0 17.2 -0 60.0 4.8 -4 69.0 3.7 -5.0 60.0 4.8 -5.0 60.0 1.1 -5.0 60.0 1.1 -5.0 60.0 1.1 -5.0 60.0 1.1 -5.0 60.0 1.1 -5.0 60.0	
DAIA GEO  REL.HUM. PEKCENT 32.0 41.0 44.0 52.0 66.0 66.0 66.0 69.0 69.0 69.0	
DAIA  REL.HUM.  PERCENT  32.0  41.0  44.0  52.0  66.0  66.0  66.0  60.0  53.0	
DAIA  WEL.HUM.  PERCENT  32.0  41.0  44.0  52.0  66.0  91.0  66.0  69.0  53.0	
<b>4</b> 0	
DAIA GEO REL.HUM. PERCENT 32.0 41.0 41.0 52.0 66.0 91.0	
DAIA GEO  REL.HUM. PERCENT 32.0 44.0 44.0 52.0 66.0	
DAIA GEO REL.HUM. PERCENT 32.0 44.0 52.0 66.0	
DAIA GEO REL.HUM. PERCENT 32.0 41.0 44.0 52.0 66.0	
DAIA 6EO REL.HUM. PERCENT 32.0 41.0	
DAIA 6E0 REL.HUM. PEKCENT 32.0 41.0	
DAIA GE <sup>U</sup> REL.HUM. PEKCENT 32.0 41.0	
DAIA GE <sup>U</sup> Rel.Hum. Pekcent 32.0	
DAIA GEO REL.HUM. PERCENT	
GE <sup>O</sup> L.HUM. KCENI	
6E <sup>0</sup> L•H∪M•	
6E <sup>Q</sup>	
0.50	
	190 1.0 1 P. 0/ 5 190 I

GODETIC CONMUTNATES 32.40043 LAT DEG 106.37033 LOU DEG	i	INUEX	OF REFRACTION	1.000284	1.000284	1.000282	00028	1.000276	1.000273	1.000269	1.000265	1.000261	1.000258	1.000253	•00054	1.000247		•	1.000231	1.000221	1-00051	1.000210	1.00020	1.000203	1.000190	1.000188	1.000183	1.000178	1.000178	1.000169	Z91000·I	951000-1	641000.1	261000-1	•00014	1.000147	-	1.000142	1.000139		1.000155	1.000133
6E ODE TI 32. 106.	ı	TA	SPEEU KNOTS	6.6	0.0	10.7	11.6	12.6	13.3	13.7	12.9	11.8		11.8	12.0	10.7	8·5	5.7	3.7	3.5	٥. ر	9 .	V .	0 o	5 4	r. 4	5.7	6.8	<b>8</b> •0	# (C	0 1	V a	0 u	n .	5.1	201	0.	8.6	10.1	11.5	12.7	13.8
		AINU DAT	DIRECTION CEGREES(TN)	135.0	1.35+1	1001	145.0	148.0	151.6	153.2	154.1	1.4.8 1.4.8	1,52,1	157.2	154.5	1,59.1	126.6	145.1	118.9	105.0	7.00	200	<b>7</b> • 0 • 0	74.47	7.4.7	41.5	95.7	701	116.5	140.1	1.00 T	0.74	1000	1.002	236.5 	V.V.V.	25/1	ກໍ່	543.6	246.3	•	6.065
24 ta		ıΨ		<b>682.3</b>	6.000	679.7	677.1	675.4	673.9	672-1	670.4	<b>668</b> •6	660.8	0+0,90	663.2	061.44	9.659	657.8	657.0	650.9	624.3	6.250	651.7	4.050	0.110	540.0	4.040	1.440	0.549	041.5	6.0±0	0.010	0.600	0.000	03/•1	635.9	034.7	033.5	034.3	1.150	030.0	628.B
UPPER AIN UAF 2220020544 WHITE SALUS	TABLE 16		GM/CUBIC METER	1002.5	1002.3		M	971.2	•	947.3	35	7	912.8	901.to	890.6	879.4	868•4	857.5	844.0	831.5	0<0.3	808-8	197.1	77.5.4	76.24	751+1	740.0	728.9	717.0	707	0.22 · c	0.4.0	6.279	1.200	651.4	641.0	639.8	620∙8	611.0	601.3	591.7	592.4
-		REL.HIM.	PERCENT	32.0	32.1	36.2	40.3	45.9	45.5	48.5	51.5	54.9	58.3	61.7	65.1	72.4	81.1	89.8	74.5	<b>5.</b>	010	61.7	65.8	00.00 0.00	יי יי יי	58.5	56.6	50.0	63.5	45.0	7.92	7.4.7		0.22	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7
1 13L 11 15L		<b>TEMPERATURE</b>	DEWPOINT CENTIGRADE	12.9	12.9	12.7	S	12.0	11.6	11.2	10.8	•	•	•	8•5	9•8	8.7	8.6	5.to	2+8	0.7	:		0.1-	1 4 4	10.00	-7.0	<b>ħ•6-</b>	4-6-	-12.7	C•51.	1.12	C . 22 1	100	N	-25.4	-20.5	-27.0	-27.7	28.	-29.3	-30.1
89.00 FEET MSL 1514 HRS MDF		TEMP	A I'H DEGMEES	31.6	11.6	29.3	27.0	S	24.5	22.6	-	ייכ	18.1	10.5	15.0	13.4	11.8	10.2	6•6	1.6	) 	\ 1 0		00	, a	1.7	9.		-	÷ 0	2.7	( F		T	6 • G •	01	6.01	-8.8	₽•6-	E-01-	_	-15.3
TUDE 39		PRESSURE	MILLIUARS	•	882.3	867.3	852.6	830.0	823.6	80%	795.4	187	761.7	754.2	6.04/	727.7	714.6	701.8	684.1	676.6	7	2.760	7.040	950	60.409	594.0	585.9	572.0	561.2	550.6	1.040	5.0.7			0.000	7.064	1.084	471.3	• 79	ς: Ω:	•	435.5
STATION ALTITUDE 10 Aug. 81 ASCENSION 40. 54		GEONE THIC	ALTITUDE MSL FEET	3989.0	4000.0	4500.0	0.0005	5500.0	0.0000	6500.0	7000.0	7500.0	8000-0	8200.0	0.0006	9500.	100001	10500.0	11000.0	11500-0	0.00021	12500.0	3000	14000.0	4500	5000	15500.0	16000.0	16509.0	17000.0	0.00071	18500.0	100001	0.60067	19500.0	20000-0	20200.0	21000.0	21500.0	2000	445000.0	23000.0

GEODETIC COURDINATES 32.40043 LAT DEG 106.37033 LON DEG	INDEX OF REFRACTION	1.000130 1.000128 1.000126 1.000123
6E OLE T 1 32. 106.	TA SPEEU KNOTS	
	WIND DATA UIRECTION SPEED DEGREES(IN) KNOTS	
UPPER AIM DATA 2220020544 WHITE SANDS TABLE 16 CON'T	SPLEU OF SOUND KNOTS	573.2 627.6 564.1 625.4 554.3 625.6 544.2 625.1
	REL.HIM. DENSIIT SPLED OF PERCENT GM/CUBIC SOUND MLTER KNOIS	573.2 564.1 554.3 544.2
	REL . HIM. PERCENT	21.9 22.0 20.7 18.6
STATION ALIITUDE 3989.00 FEET MSL 10 aug. 81 1514 HRS MDT ASCENSION NO. 544	TEMPERATUPE AIR DEWPOINT DEGREES CENTIGRADE	150.9 131.7 132.8
	TEMP AIR DEGREES	-13.8 -14.7 -15.8
	PRESSURE MILLI <sub>BA</sub> RS	426.9 410.6 410.3 402.1
	GEOMETRIC PRESSURE ALTITUDE MSL FEET MILLI <sub>UA</sub> RS	23500•0 24000•0 24500•0 25000•0

6E <sup>O</sup> DL <sup>T</sup> IC COOKDINATES 32.40043 LAT DEG 106.37033 LON DEG	A SPEED KNOTS		•	•	•							
)ਜ ਜ	- -	11.8	13.3	11.9	5.	3.	3	9	5.1	12.0		
Q 1 3		DIRECTION DEGREES(TN)	145.7	153.9	157.9	142.7	90.3	73.2	120.5	236.2	2+5+2	
MANDATORY LEVELS 2220020544 WHITE SANDS TABLE 17	HEL. HUM.	PERCENT	41.	51.	65.	91.	62.	57.	* * * *	21.	22•	18.
	TEMPEHATURE AIR DEWPOINT DEGREES CENTIGRAUP		12.3	10.9	0.6	8.6	1	15.4	-13.1	9.42-	-28.8	-34.7
	AIR DEGREES	56.6	21.6	16.1	10.0	9•9	2.3	-2.5	-5.9	-11.1	-15.9	
DE 3989.00 FEET MSL 1514 HRS M DT 544	RESSURE GEOPOIENTIAL	FEET	5086.	6830.	8652.	10560.	12576.	14718.	17006.	19473.	22154.	25090.
	PRESSURE 6	MILLIBARS	950∙0	800.0	150.0	2000	0.059	0.009	550.0	200.0	450·0	0.00%
STATION ALIITUDE 398 10 aug. bl Ascension no. 544												